Claims

- A device for separating a biological component, which comprises magnetically responsive particles and a chip obtained
 by adhering a pair of substrates, which comprise one or multiple grooves formed on at least one surface thereof, with the groove(s) placed inside.
- 2. The device of claim 1, wherein said groove forms, within the 10 chip, at least one compartment and a flow passage communicating with the compartment.
 - 3. The device of claim 2, wherein said groove has a protrusion protruding into the compartment.

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- 4. The device of any of claims 1 to 3, wherein the biological component is a nucleic acid.
- 5. The device of claim 4, wherein the magnetically responsive particles further comprise silica.
 - 6. A method of separating a biological component from a liquid sample comprising the biological component, which uses a device of any of claims 1 to 3, and comprises the following steps (a) (d):
 - (a) a step of holding the device such that the adhesion surface of the pair of substrates is about perpendicular to the horizontal direction,
- (b) a step of adsorbing the biological component to magnetically responsive particles by contacting the magnetically responsive particles with the liquid sample containing the biological component,
 - (c) a step of separating the magnetically responsive particles comprising the biological component adsorbed thereto from the

- liquid sample, and
- (d) a step of separating the biological component from the magnetically responsive particles.
- ⁵ 7. The method of claim 6, wherein the magnetically responsive particles comprise ferromagnetic particles.
- 8. The method of claim 6 or 7, wherein the step (c) is performed by moving the magnetically responsive particles by application of a magnetic field.
 - 9. The method of any of claims 6 to 8, wherein the step (d) is performed by dissolving the biological component in a solvent.
- 15 10. The method of any of claims 6 to 9, wherein the step (d) comprises a step of separating the biological component from the magnetically responsive particles by applying an electric field.
- 11. The method of any of claims 6 to 10, wherein at least one of the steps is automatically controlled.
 - 12. The method of any of claims 6 to 11, wherein the biological component is a nucleic acid.
- 25 13. The method of claim 12, wherein the magnetically responsive particles further comprise silica.